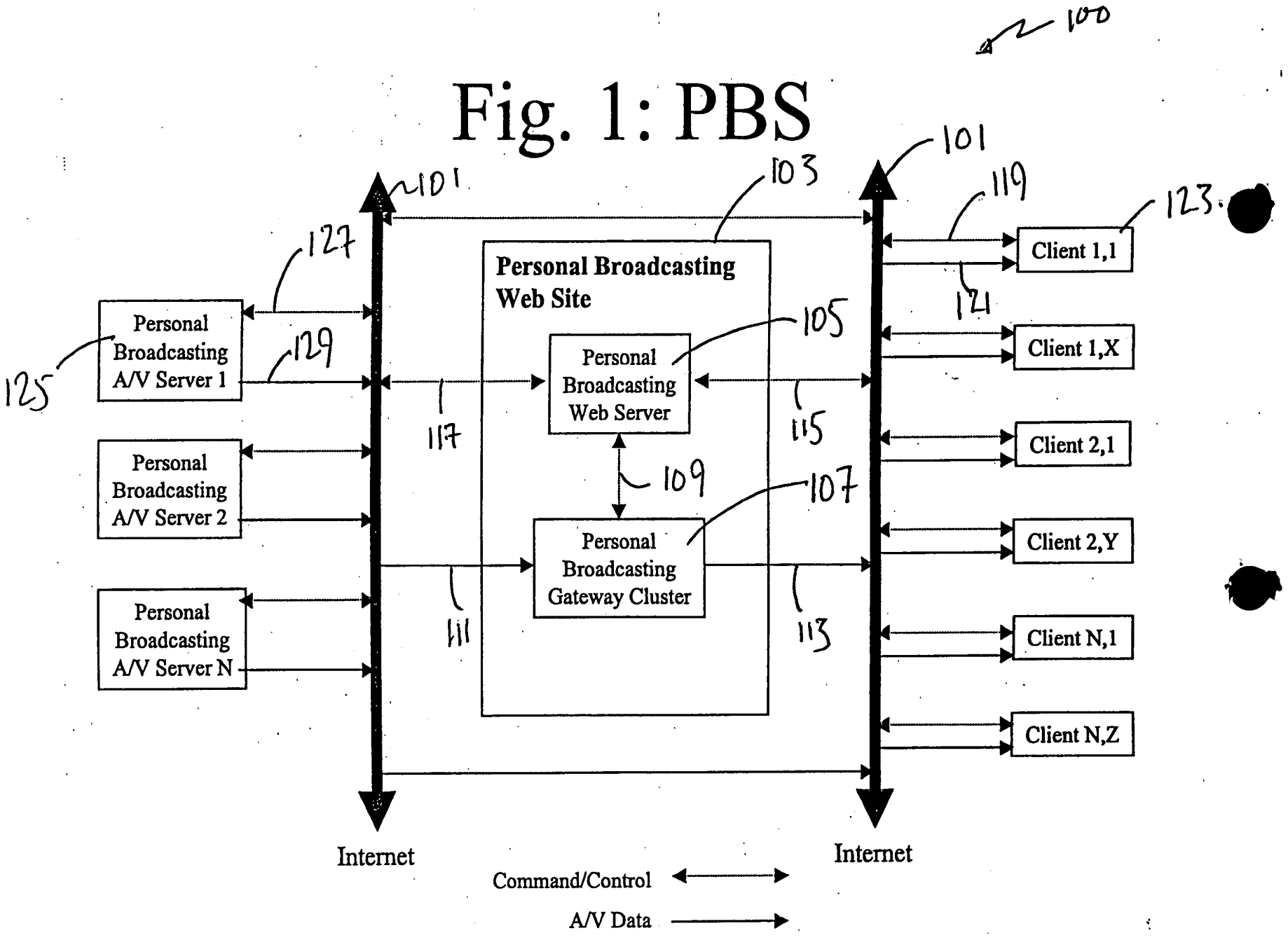
0006ED" E6T6E560

Fig. 1: PBS



22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS
AMPAD

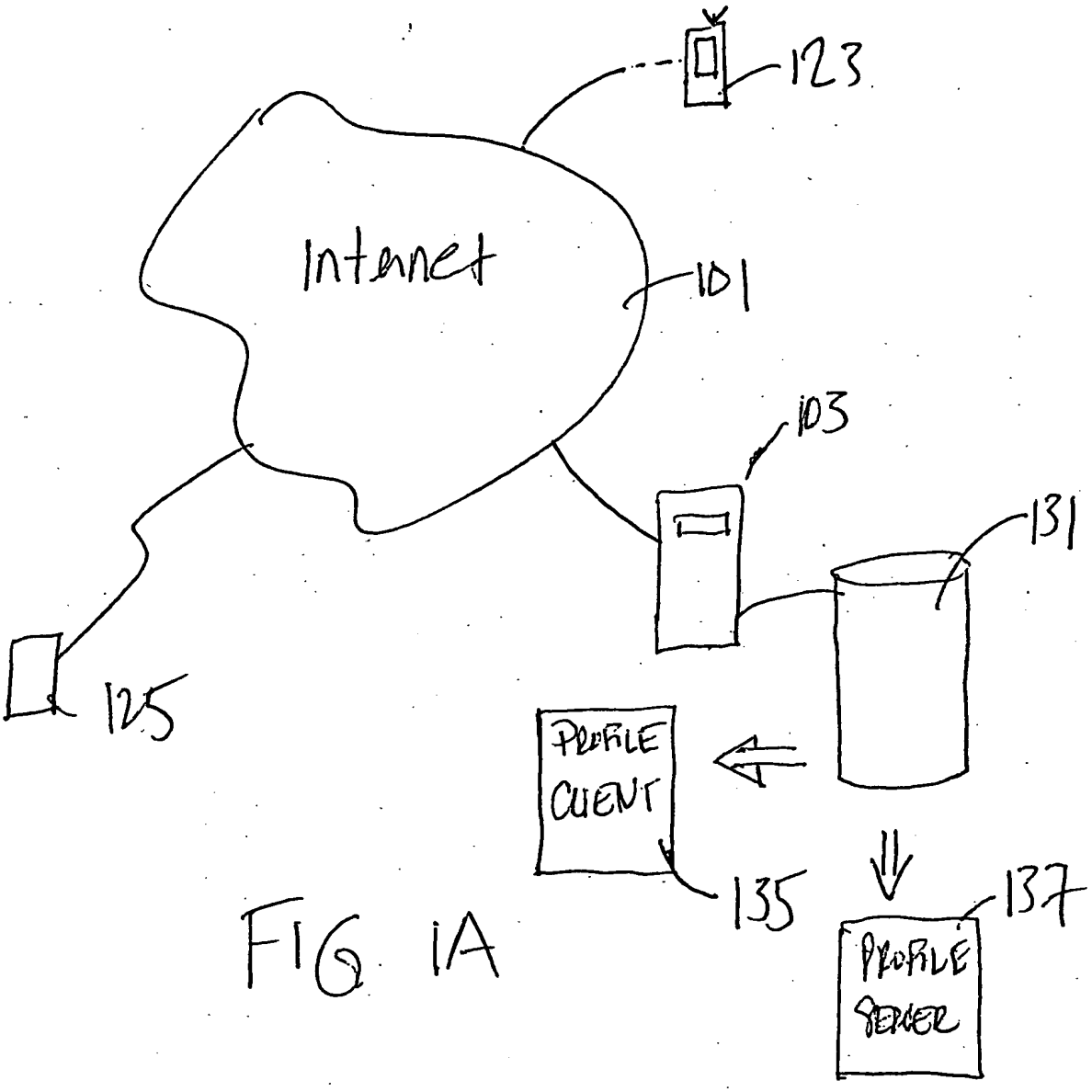
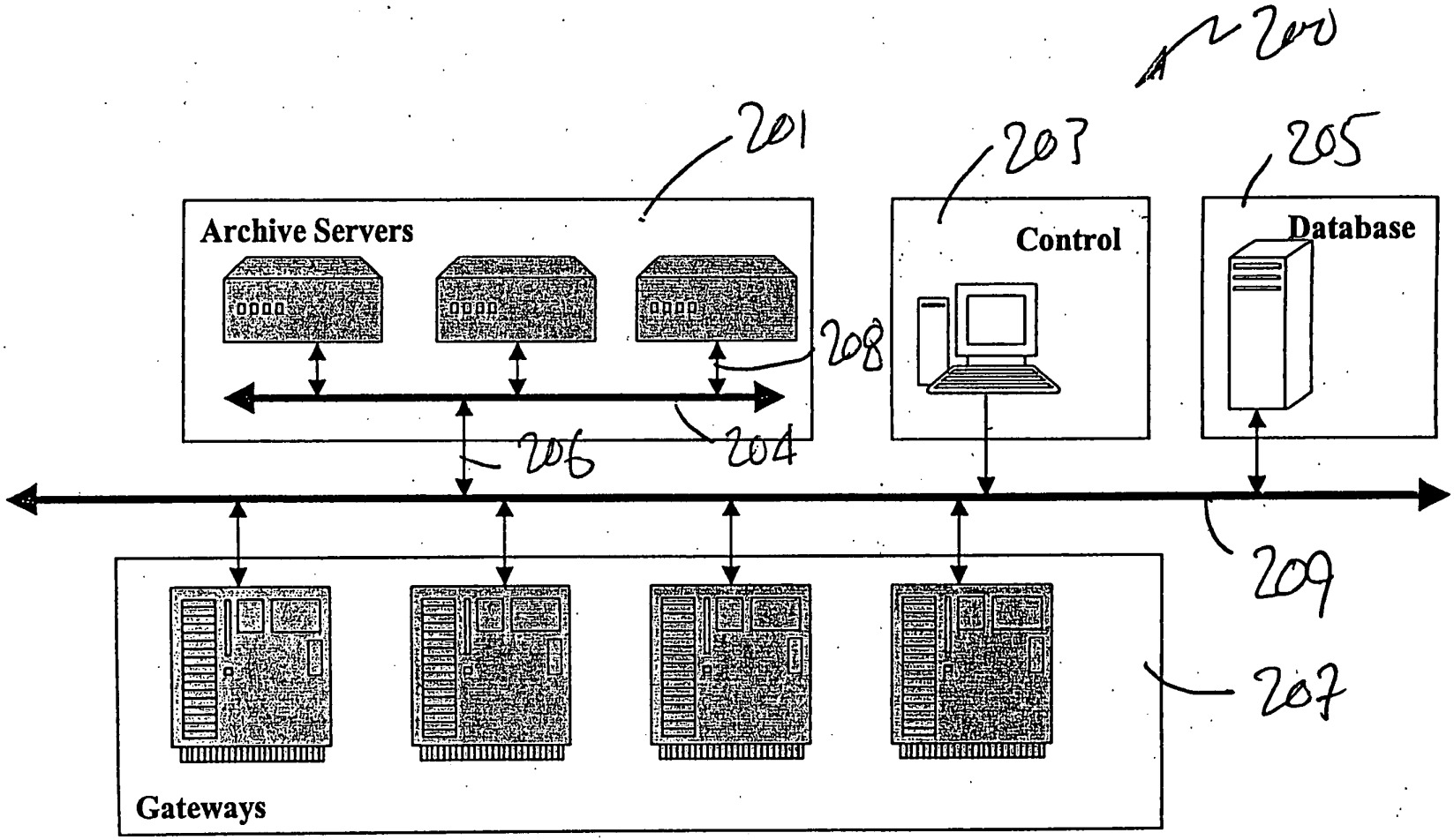


FIG 1A

Fig.2


200
201
203
205
Archive Servers
Control
Database
208
206
204
209
207
Gateways

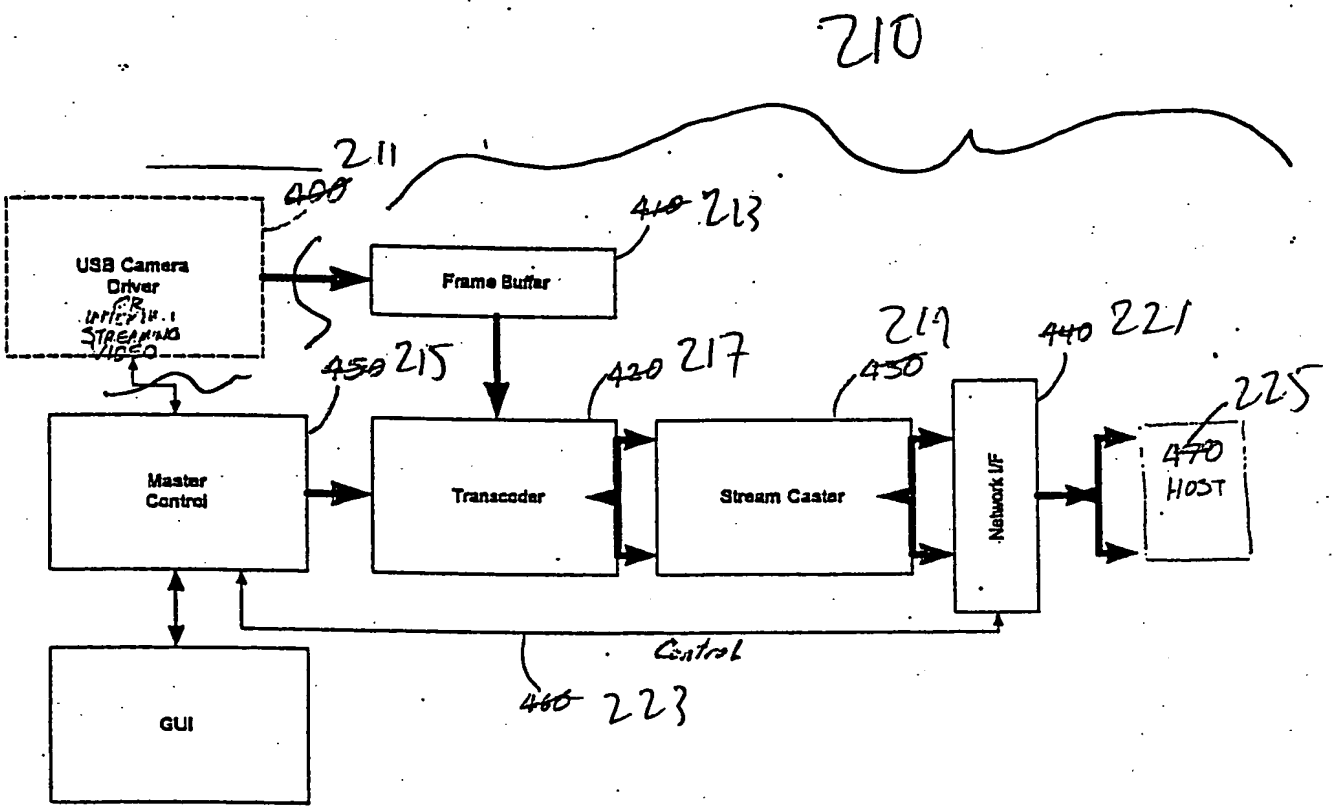

210
211
USB Camera Driver
Frame Buffer
213
215
Master Control
Transcoder
217
219
Stream Caster
221
Network I/F
225
HOST
Control
223
GUI

FIG. 2A

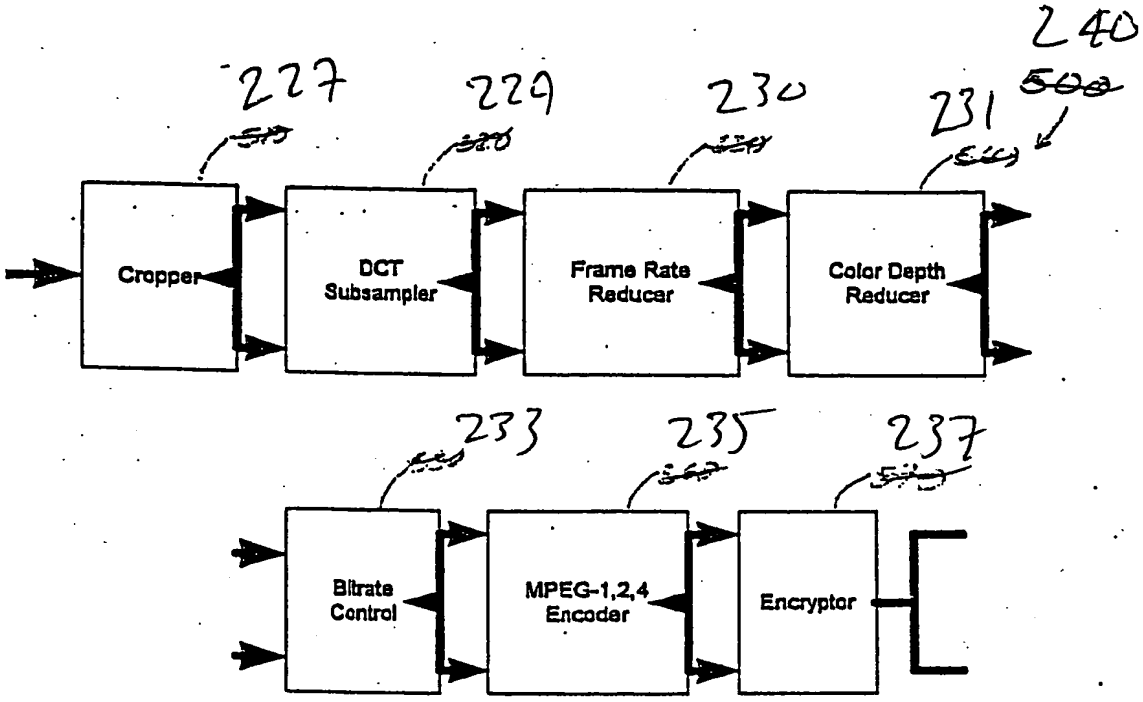

240
227
229
230
231
Cropper
DCT Subsampler
Frame Rate Reducer
Color Depth Reducer
233
235
237
Bitrate Control
MPEG-1,2,4 Encoder
Encryptor

FIG. 2B

00020 E0T6ES60

Stream Flow Option A

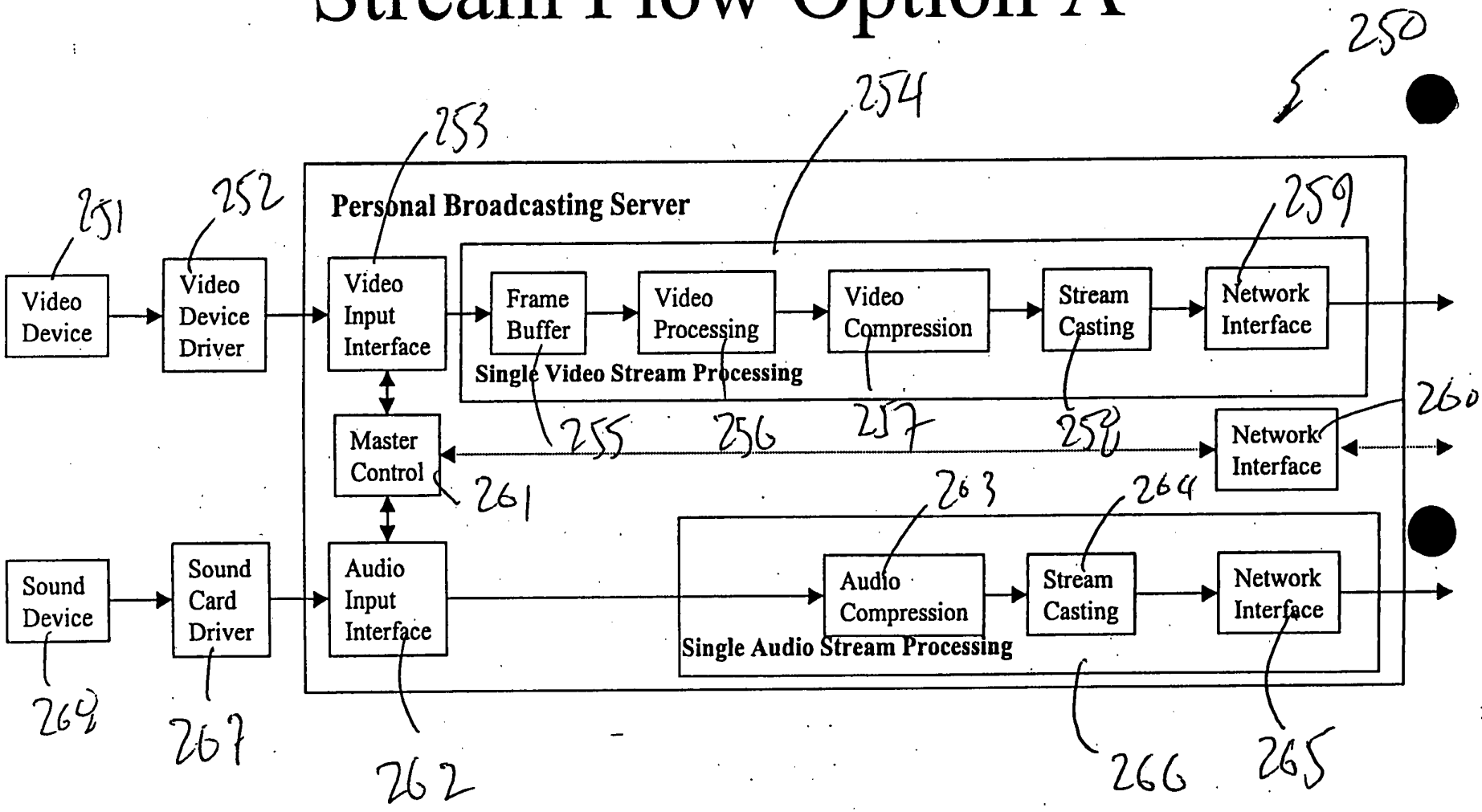


FIG. 2C

Stream Flow Option B

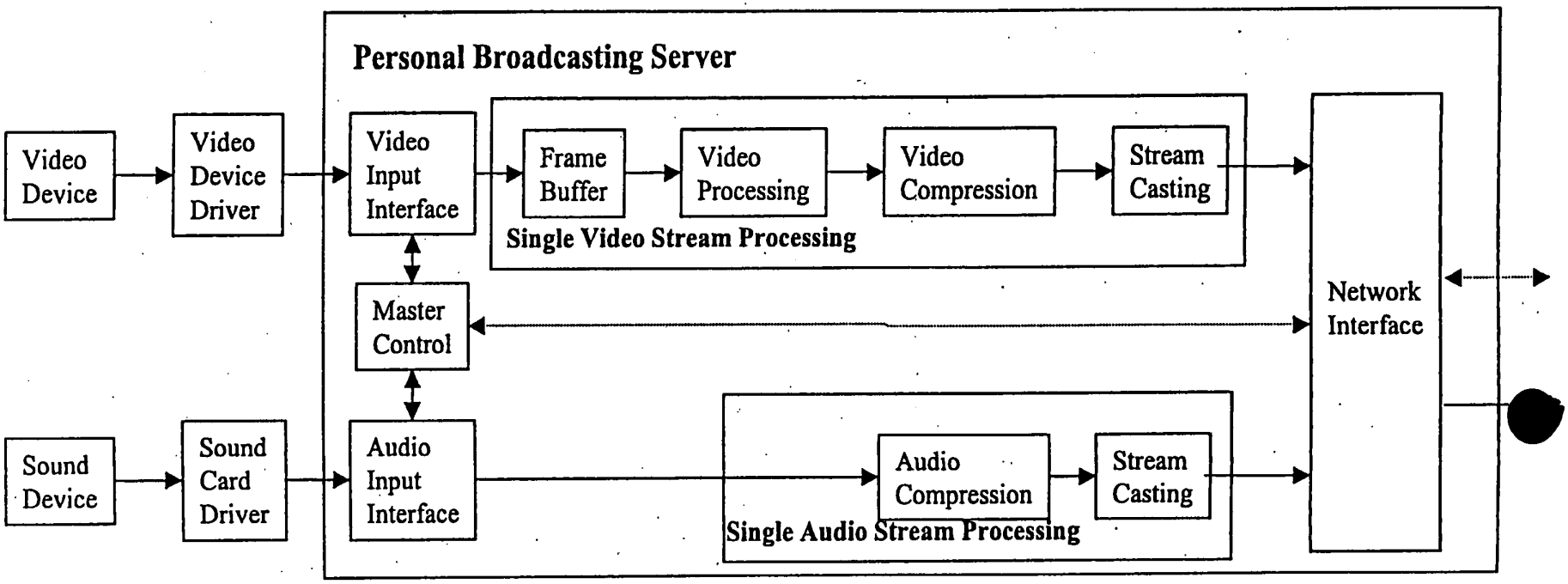


FIG. 2D

000220 E6T62560

Stream Flow Option C

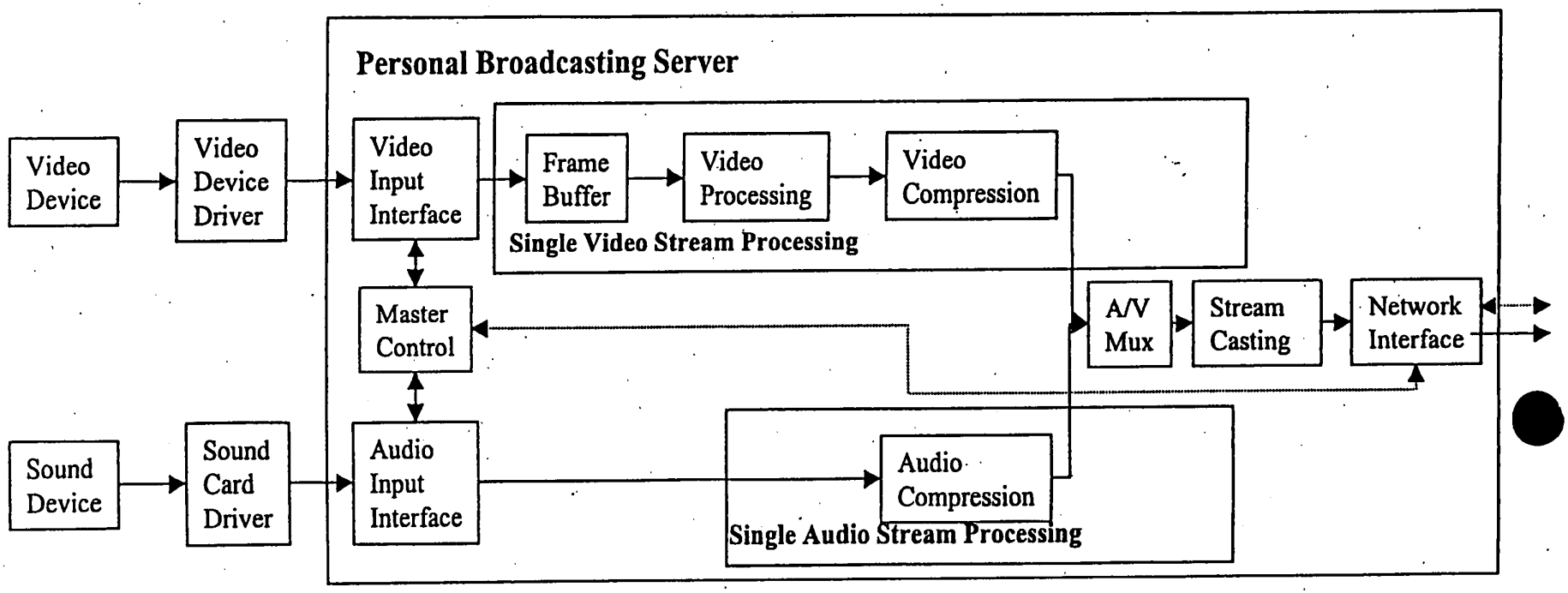


FIG. 2E

000260 26T6260

Personal Broadcasting Process

(1)

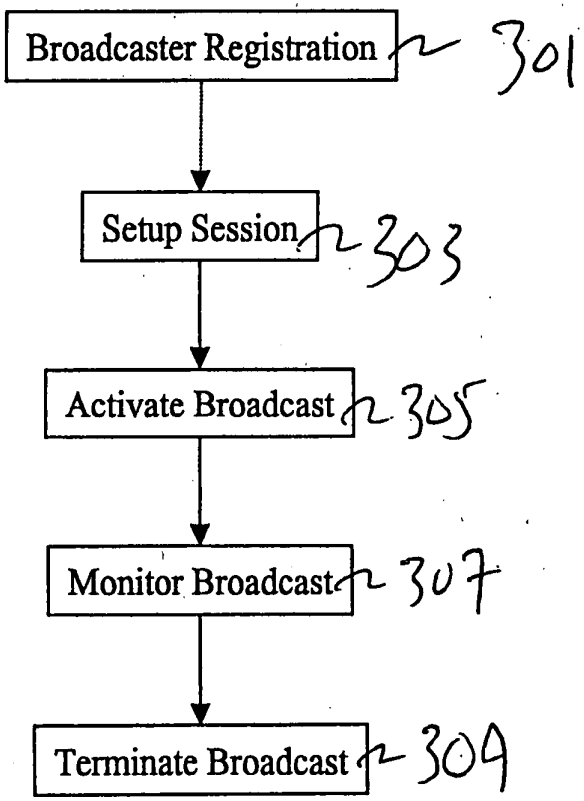


FIG. 3

000E60 E6T6E560

Broadcaster Registration

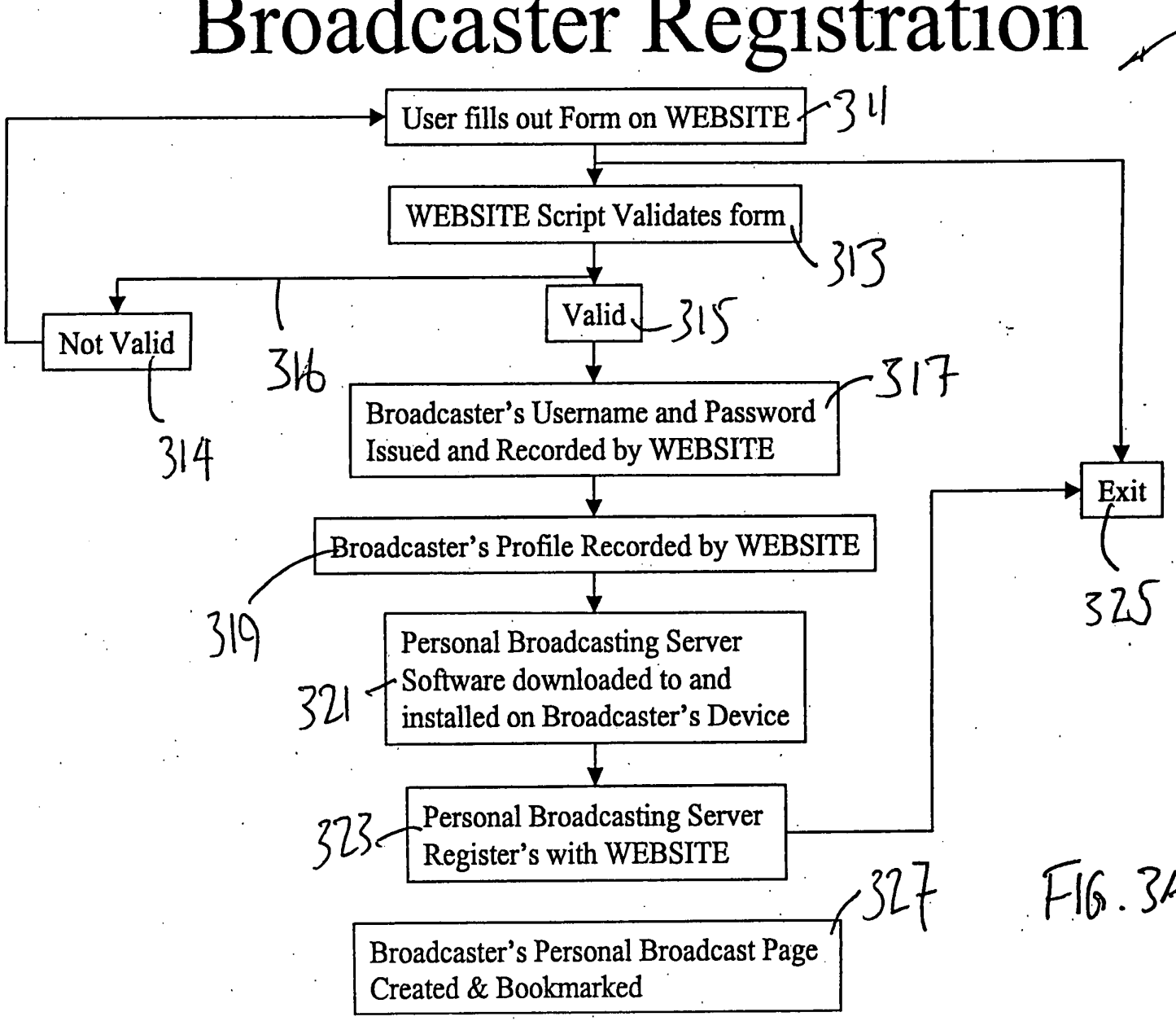


FIG. 3A

330

Setup Broadcasting Session

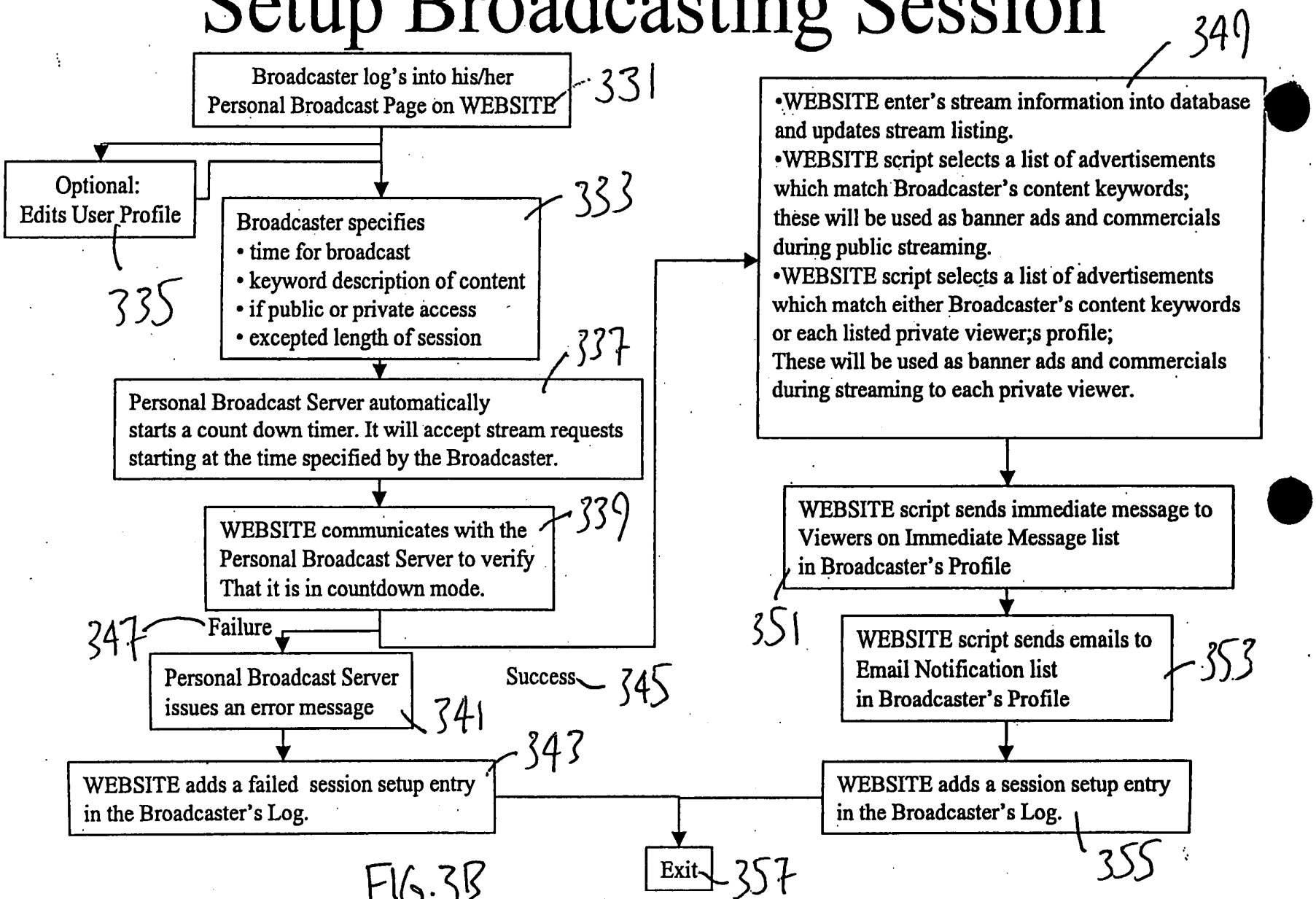


FIG. 3B

Activate Broadcast

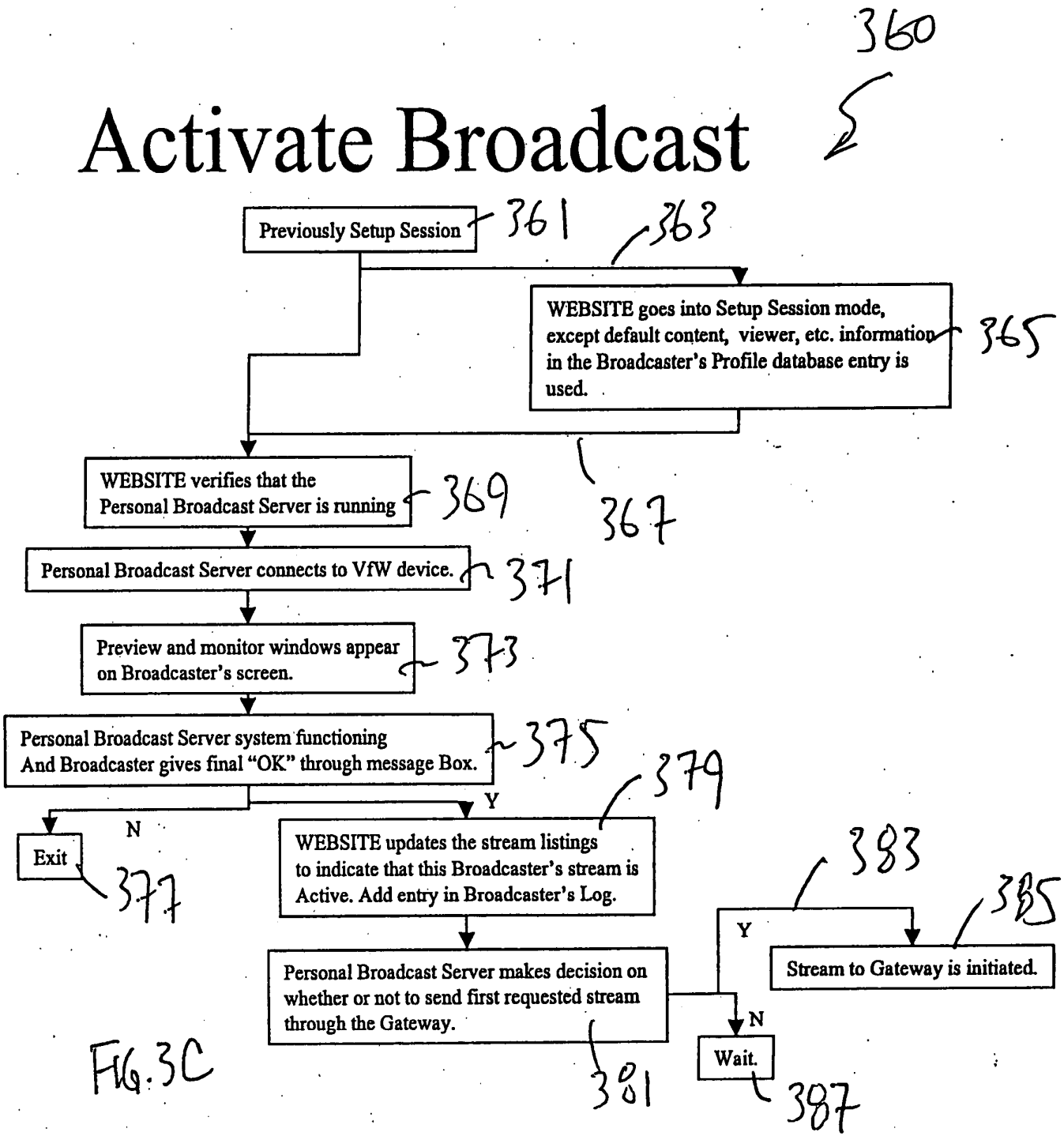


FIG. 3C

00060 26T0E560

Terminate Broadcast

390

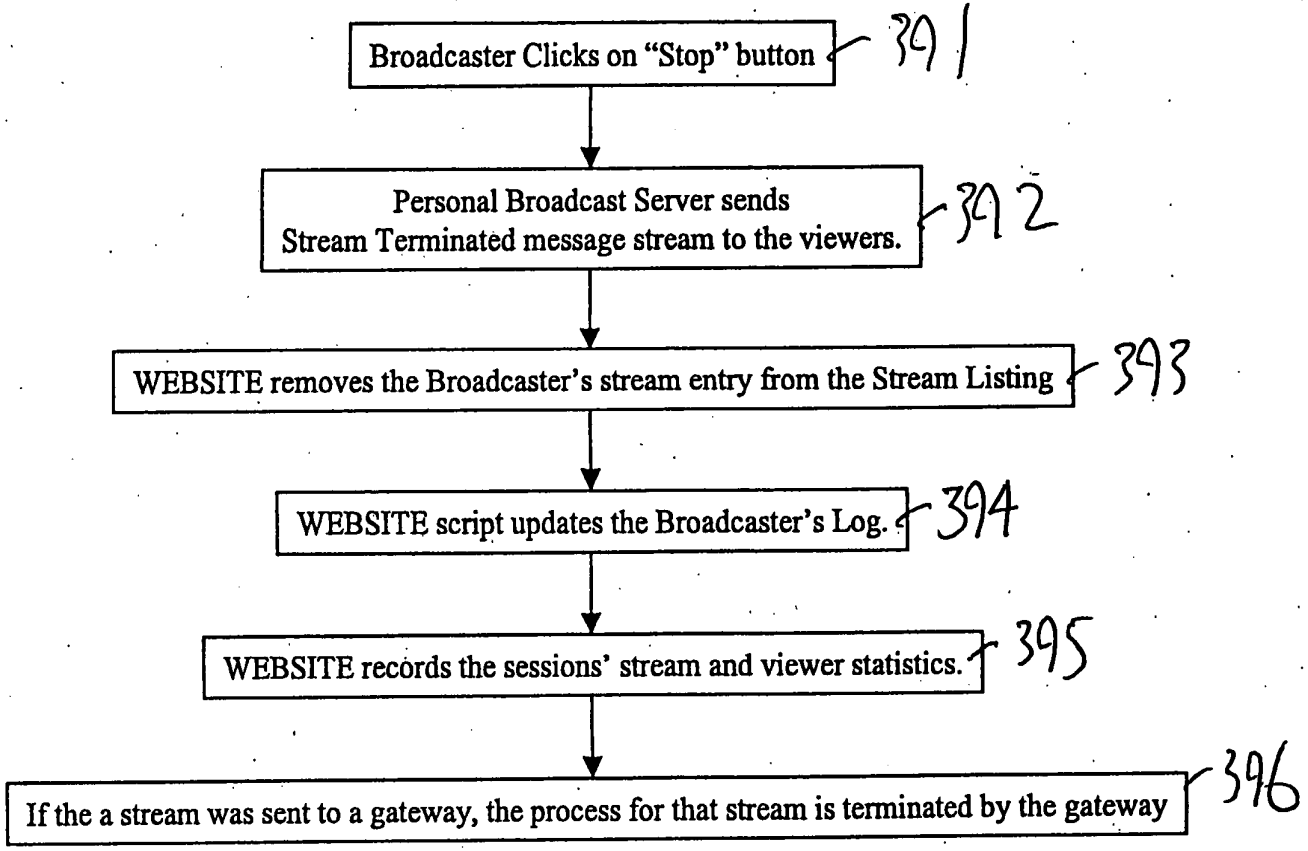


FIG. 3D

00020" 20T625G0

Viewing Process (1)

400

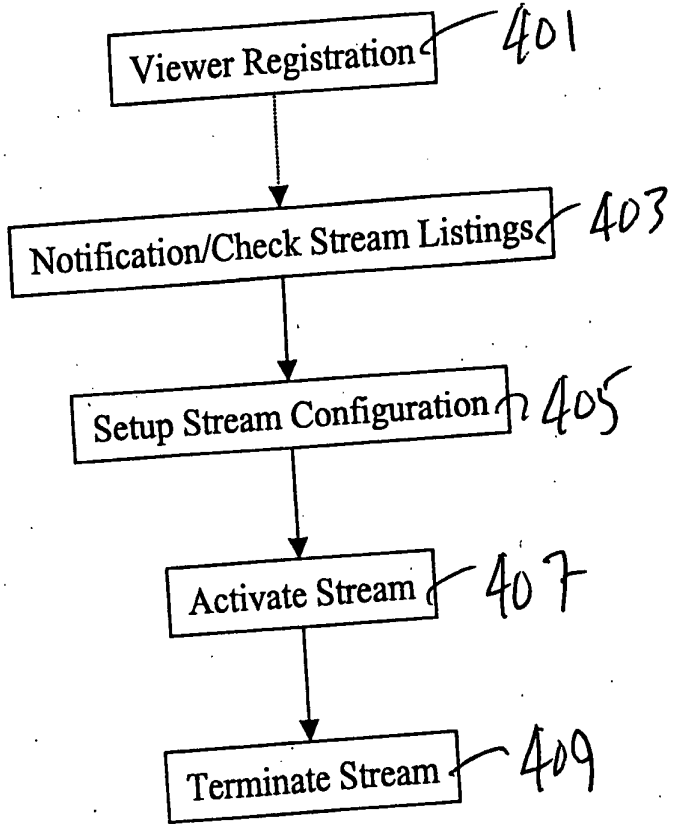


Fig. 4

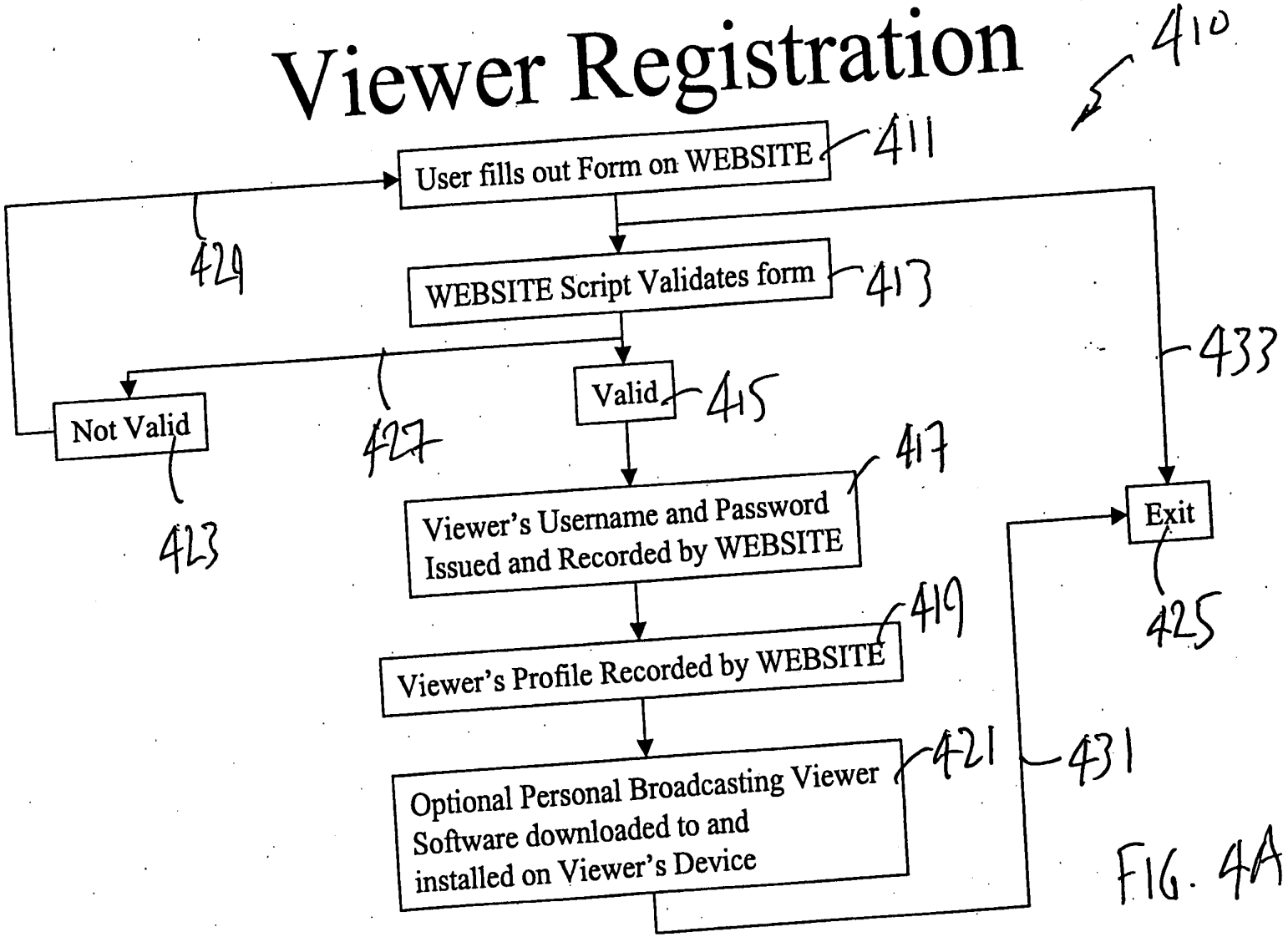

Viewer Registration
410
User fills out Form on WEBSITE
411
429
WEBSITE Script Validates form
413
433
Not Valid
427
Valid
415
423
Viewer's Username and Password
Issued and Recorded by WEBSITE
417
Exit
425
Viewer's Profile Recorded by WEBSITE
419
Optional Personal Broadcasting Viewer
Software downloaded to and
installed on Viewer's Device
421
431

FIG. 4A

000E0 E6T6E560

Setup Stream Configuration

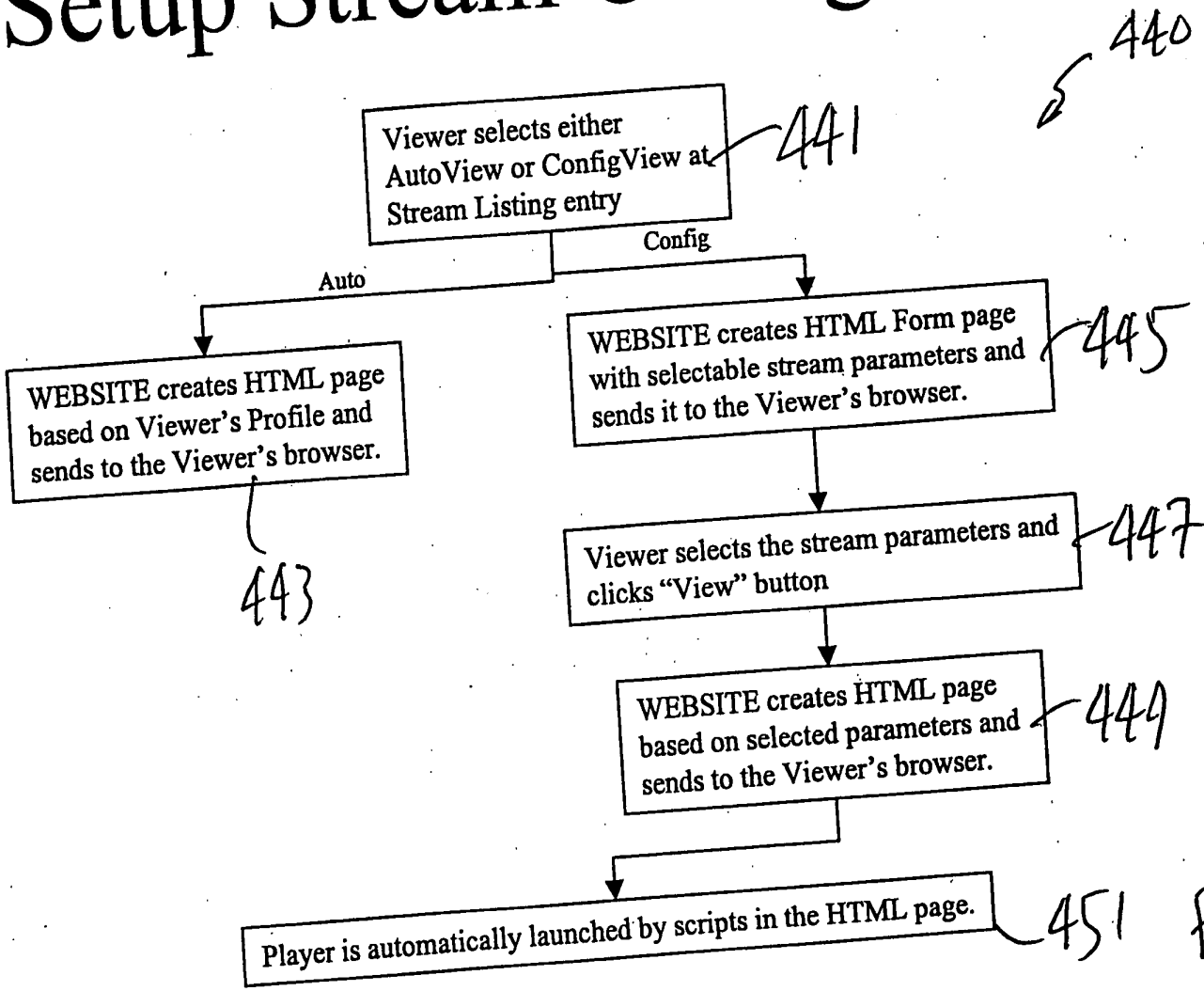


FIG. 4B

Client Mobile Device Capability:

DeviceType	Processor	OS	Player	Display	Bandwidth
PDA	16bit	PalmOS	Browser (no javascript) (no audio)	160x120	14kbps

Map to internal structure:

StreamFormat	Resolution	ColorDepth	FrameRate	ProtocolType
MotionGIF	160x120	2bit	1fps	TCP

Mapping:

FIG. 6

Resolution = Display

501

500

Player	ProtocolType
LuxPlayer	RTP
Others	TCP

502

DeviceType	ColorDepth
CellPhone	1bit
PDA	2bit
WinCE	4bit
PC	24bits

503

QoS Bandwidth	FrameRate
14.4kbps	1fps
28.8kbps	2fps
33.6kbps	4fps
128kbps	8fps
324kbps	15fps
> 324kbps	30fps

504

Player	ColorDepth	Processor	StreamFormat
Browser	1bit, 2bits	ANY	MotionGIF
Browser	> 2bits	ANY	MotionJPEG
ANY	1bit, 2bits	<266MHz	MotionGIF
ANY	> 2bits	<266MHz	MotionJPEG
Otherwise			MPEG/MP3 audio

FIG. 5

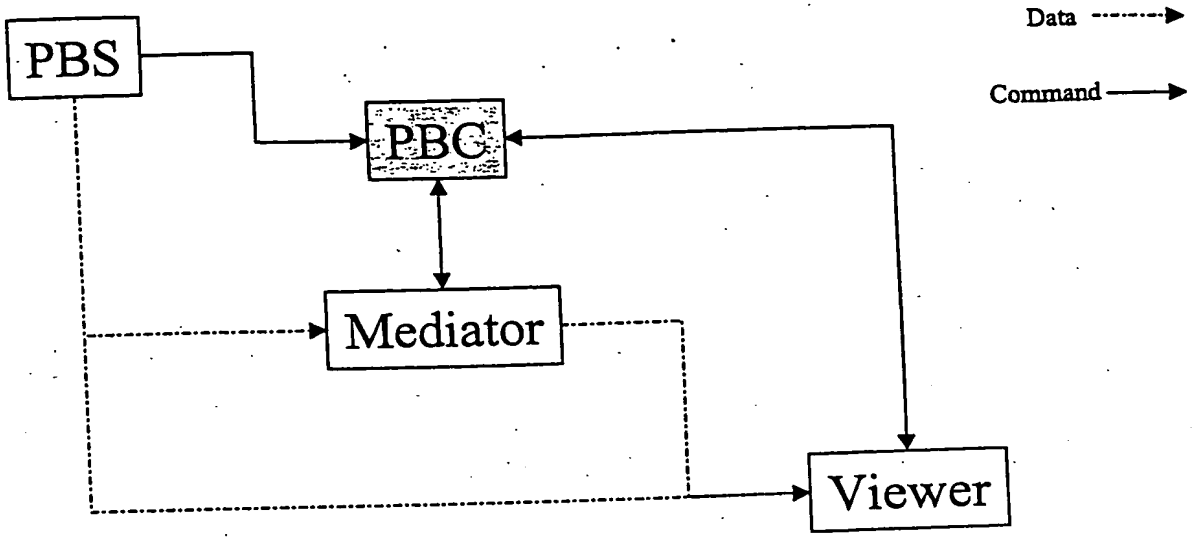

Data
Command
PBS
PBC
Mediator
Viewer

FIG. 7

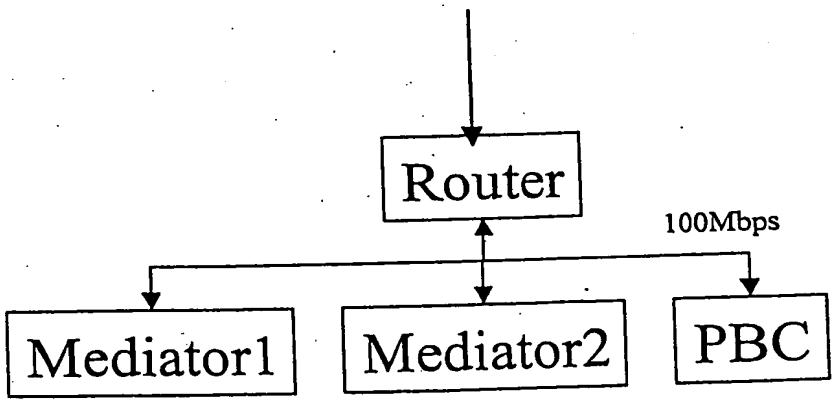

Router
100Mbps
Mediator1
Mediator2
PBC

FIG. 8

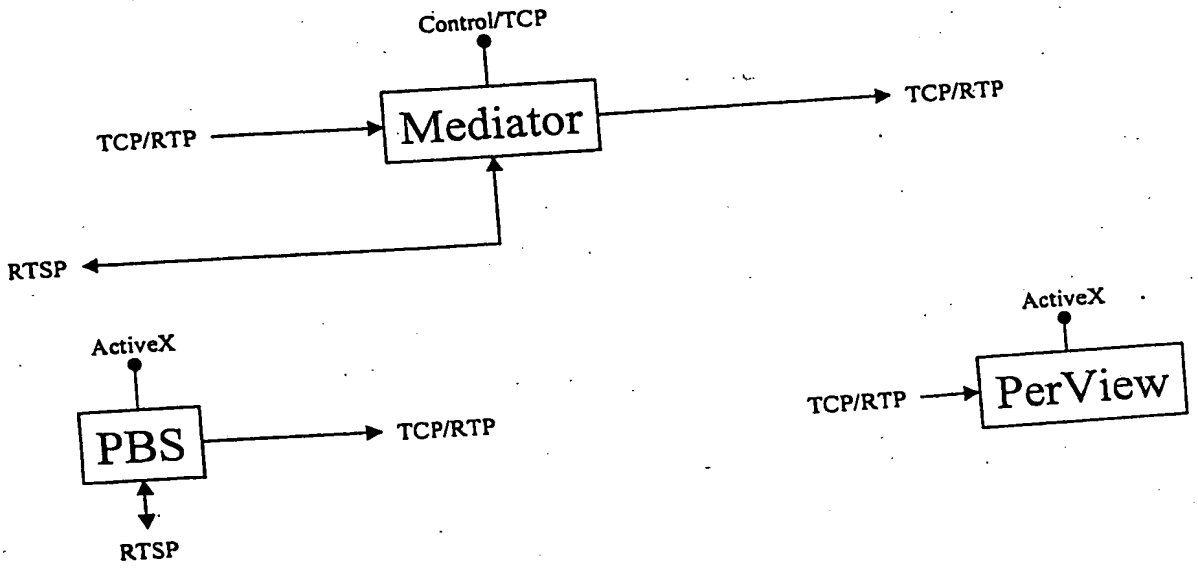

Control/TCP
Mediator
TCP/RTP
TCP/RTP
RTSP
ActiveX
PBS
TCP/RTP
RTSP
ActiveX
TCP/RTP
PerView

Fig. 9